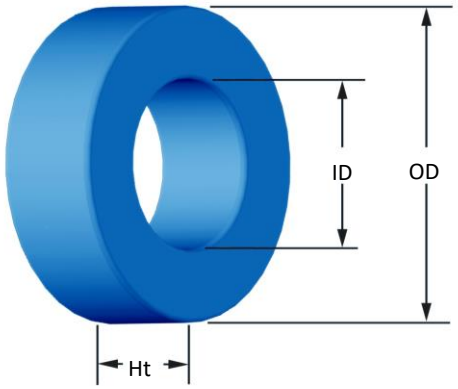
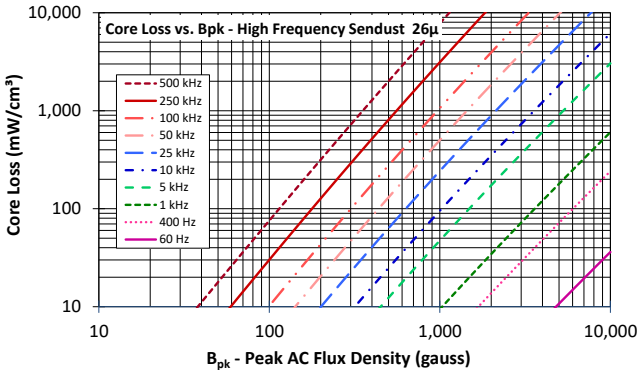
MICROMETALS
ALLOY POWDER CORES

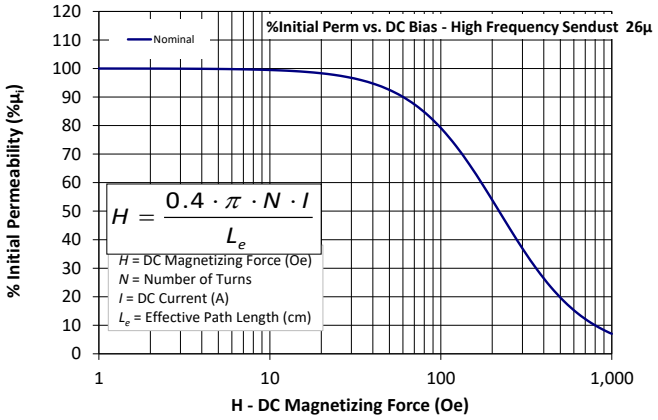
Part Number:	SH-080026-2H127

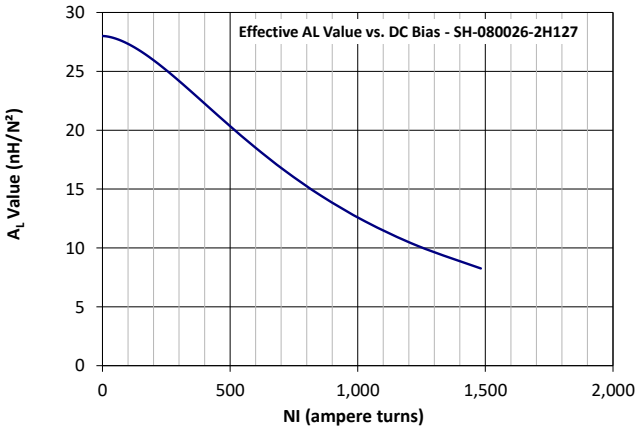
Revision 20170403 - Generated 2017-Apr-03

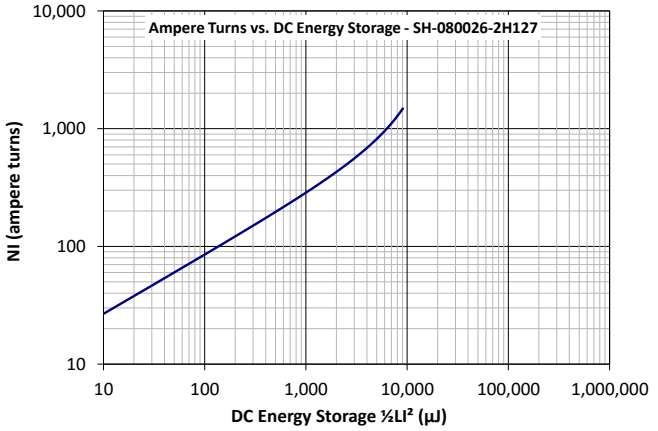


OD	(nom. - bare core)	20.32 mm	0.800 in
	(max. - after coating)	21.08 mm	0.830 in
ID	(nom. - bare core)	12.70 mm	0.500 in
	(min. - after coating)	12.07 mm	0.475 in
Ht	(nom. - bare core)	12.70 mm	0.500 in
	(max. - after coating)	13.46 mm	0.530 in
Mass	(approximate)	12 grams	
Magnetic Dimensions	A_e - Eff. Mag. Cross Section	0.452 cm²	
	L_e - Eff. Mag. Path Length	5.09 cm	
	V_e - Eff. Core Volume	2.30 cm³	
	WA - Min. Eff. Window Area	1.14 cm²	
	sa - Surface Area	20.3 cm²	
	mlt - mean length per turn	4.20 cm	
Inductance	μ_i(reference)	26	
	A_L value (nominal)	28 nH/N²	
	Test Winding	N=90, #28 AWG	
	Frequency	10 kHz	
	Voltage on Agilent 4284A	0.18 V	
	AL tolerance	±8%	
Core Loss	Core Loss(mW/cm³)= $\frac{f}{\frac{a}{Bpk^3}+\frac{b}{Bpk^{2.3}}+\frac{c}{Bpk^{1.65}}}+d\cdot Bpk^2\cdot f^2$		
	where B_{pk} expressed in gauss, f expressed in hertz, and:		
	a=1.000E+06, b=3.287E+08, c=5.779E+06, d=1.240E-14		
	B_{pk}	500 G	
	frequency	100 kHz	
	Core Loss (nominal)	277 mW/cm³	
	Core Loss (maximum)	318 mW/cm³	
DC Saturation	$\%\mu_i \cdot \frac{1}{a+b\cdot H^c}+d$		
	where H expressed in oersteds, and:		
	a=1.000E-02, b=1.042E-06, c=1.701, d=0.000		
	H_{DC}	200 Oe	
	Percent Initial Perm(nom.)	53.9%	
	Percent Initial Perm(min.)	46.1%	
Coating/Pkg	Coating Type:	Blue Epoxy	
	Voltage Breakdown (min.)	1000 Vrms	
	Limit	0.1 mA, 5 s	
	Package Quantity	900 Pcs/Box	









Winding Table	**Wire Size**	AWG	10	12	14	16	18	20	22	24	26	28	30
		mm	2.500	2.000	1.600	1.250	1.000	0.800	0.630	0.500	0.400	0.315	0.250
	Single Layer	Turns	10	13	17	22	28	35	44	56	70	88	110
		Rdc(Ω)	1.4 m	2.8 m	5.9 m	12.1 m	24.6 m	48.9 m	97.7 m	197.8 m	393.2 m	786.0 m	1.6
	Full Winding	Turns	9	14	22	34	53	82	127	197	305	472	731
		Rdc(Ω)	1.2 m	3.1 m	7.6 m	18.8 m	46.5 m	114.5 m	282.0 m	695.7 m	1.7	4.2	10.4

Micrometals Alloy Powder Cores, A Division of Micrometals, Inc. - 5615 E. La Palma Ave., Anaheim, California 92807 USA
Ph: +1-714-970-9400, Toll Free in USA: +1-800-356-5977, Asia Pacific Sales: +852 3106 3736
www.MicrometalsAPC.com